

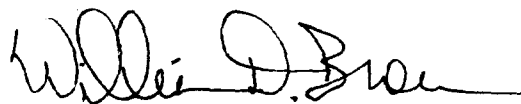
## Foreword

Hydrologic engineering is a civil engineering discipline involving the analysis of water and its systems as it moves above, on, through, and beneath the surface of the earth. Water is a critical and integral element in planning and evaluating flood damage reduction measures and actions. For these studies, hydrologic engineers have a major role in defining the flood hazard, and in locating, sizing, and assuring the functional and operational integrity of the projects.

This document describes the study processes performed by U.S. Army Corps of Engineers hydrologic engineers for Federal flood damage reduction studies. The objective is to enable Corps staff, the cost-shared partners, and others involved in the planning process to gain a better understanding of the hydrologic engineering study scope, strategies, and methods of analysis. It is intended that with this better understanding, the study team participants will more clearly define and grasp the choices available for the conduct of the hydrologic engineering analysis and will reach a mutual agreement on the study requirements.

This document is applicable to HQUSACE elements, major subordinate commands, districts, laboratories, and field operating activities having civil works responsibilities.

FOR THE COMMANDER:



WILLIAM D. BROWN  
Colonel, Corps of Engineers  
Chief of Staff